

What is Claimed is:

1. A multilayered article comprising a plurality of layers of polyamides and arranged
5 to include two surface layers and one or more inner layers, and wherein said
surface layers further comprise one or more aliphatic polyamides and wherein at
least one of said inner layers comprises a semi-aromatic polyamide derived from
at least about 25 mole percent of aromatic monomers.
- 10 2. The multilayered article of claim 1 wherein said aliphatic polyamides further
comprise one or more oxidation stabilizers selected from the group consisting of
copper salts, aromatic amines, and hindered phenols.
- 15 3. The multilayered article of claim 1 wherein said aliphatic polyamides have melting
points below 280 °C.
4. The multilayered article of claims 1 or 2 in the form of a tube.
- 20 5. A heat exchanger incorporating the multilayered article of claims 1 or 2 in the
form of a tube.
6. A process for the manufacture of a multilayered article comprising a plurality of
layers of polyamides and arranged to include two surface layers and one or more
inner layers, and wherein said surface layers further comprise one or more
25 aliphatic polyamides and wherein at least one of said inner layers comprises a
semi-aromatic polyamide derived from at least about 25 mole percent of aromatic
monomers, comprising:
 - (a) melt-extruding each of said plurality of layers of polyamides under
processing conditions suitable for each layer, and thereafter
 - 30 (b) combining said layers into a selected multilayered configuration.
7. The process of claim 5 wherein said aliphatic polymers further comprise one or
more oxidation stabilizers selected from the group consisting of copper salts,
aromatic amines, and hindered phenols.
- 35 8. The process of claims 5 or 6 further comprising the step (c) of annealing said
selected multilayered configuration.